MODIS TECHNICAL TEAM MEETING

January 5, 1995

The MODIS Technical Team Meeting was chaired by Vince Salomonson. Present were Al Fleig, David Herring, Dorothy Hall, Ed Masuoka, Wayne Esaias, Bill Barnes, Rosemary Vail, Dick Weber, and Steve Ungar.

1.0 SCHEDULE OF EVENTS

Dec. 31	**Revisions of ATBDs receiving a grade of C or D due to EOS Project Science Office**
Jan. 15	**Semi-annual reports due to Barbara Conboy**
Feb. 20	MODIS Ocean Discipline Group Meeting, in Miami, FL
Feb. 21 - 24	Workshop on international Calibration/Validation Efforts for EOS Ocean Color Sensors, in Miami, FL
May 2	MODIS Calibration Working Group (tentative)
May 3 - 5	MODIS Science Team Meeting (tentative)

2.0 MINUTES OF THE MEETING

2.1 MODIS Project Reports

Weber reported that the MODIS Engineering Model (EM) is assembled, the optics and scan mirror are in place, and the electronics are wired into the system, but not mounted to the main frame. Early tests conducted by SBRC indicate that each MODIS subsystem works! In short, when SBRC shines light onto the scan mirror, they see the expected output from the Ground Support Equipment. More rigorous testing starts Jan. 16, beginning with scattered light testing. As they are collected, these data will be made available to the MODIS Team.

Fleig inquired as to the status of the software for reading the bitstream of data coming from the EM. Specifically, he wanted to know if the data are packetized. Barnes responded affirmatively.

Fleig asked, If we got copies of some data here, how would we read it? Would we use SBRC's software? Weber responded that the beta delivery of the SBRC TAC (Test Analysis Controller) software is scheduled for Jan. 11.

2.1.1 Request for Relief on Shortwave Bands

Barnes reported that SBRC is requesting relief from the MODIS specifications on the shortwave bands. Ed Knight and John Barker are evaluating SBRC's request, in light of the specifications. Barnes stated that measurements of Bands 21 - 24 indicate that the center wavelengths are all high by 20 - 50 nm. Knight suspects that SBRC may have measured the detectors' responses at room temperature, whereas they were designed to operate at 85K. Barnes said Project has asked

SBRC to review their procedure and report the temperature at which the tests were conducted.

2.2 SDST Reports

Masuoka reported that Bob Lutz, of EOSDIS, received the current draft of the MODIS Data Quality Assurance Plan. Lutz will review the plan and forward comments back to SDST.

Masuoka told the Team that the EOSDIS Project is currently carrying the following MODIS items as significant risks in sizing EOSDIS: 1) the actual resource requirements of Level 1B software. The Project will work with Guenther and/or Masuoka to understand the sizing. 2) The production of Level 3 parameters for MOD09 at EDC and its impact on network costs and the major increase it might have on computing resources at the EDC DAAC; and 3) Land Level 2 data products being archived at EROS Data Center (EDC) causes a large impact on network bandwidth or a significant increase in personnel costs if tape media are used over the option of storing the Land products at the GSFC DAAC where they are being made. Masuoka has pointed out to Project that the plan from the beginning has been Level 2 Land product archival at EDC and production at GSFC.

Masuoka is meeting with Neil Hutchison tomorrow to discuss SDST staffing concerns. He told the Team that in the contractor transition from RDC to GSC, SDST is losing some key personnel and failing to staff up as quickly as would be desired from the standpoint of being able to make progress on Beta software integration.

2.3 DAAC Development Team Update

Ungar announced that the DAAC Development Team, consisting of representatives from eight major projects in Code 900, is emphasizing the need to interconnect different data sources for more effective, efficient data interchange. Ungar stated that there is concern about EOSDIS properly scoping the infrastructure needed for data interchange.

2.4 MAST Reports

Herring told the Team that Ghassem Asrar, EOS Program Scientist, has asked for cooperation from each instrument team in updating the *EOS Reference Handbook*. Herring asked MODIS Team members to review the section(s) of the handbook pertaining to MODIS and forward to him any corrections/additions/deletions that should be made. He will work closely with Bill Barnes to collect the teams' inputs and forward them to the EOS Program Office on or before the Jan. 16 deadline.

3.0 ACTION ITEMS

1. *Weber*: Work with SBRC to obtain MODIS test data.

2. *Herring*: Interact with the MODIS Team to update the *EOS Reference Handbook*.

3.1 Action Items Carried Forward

3. *Guenther and Montgomery:* Evaluate the calibration accuracy for the high temperature channels.
4. *MODIS Team*: Determine how, given the MODIS bowtie effect, MODIS images will be produced at launch. [This may be a suitable topic for discussion at the next Science Team Meeting.]
5. *Fleig and Ungar*: Interact with the group leaders prior to developing a MODIS data simulation plan for review at the next Science Team Meeting. [Work on this item is still in progress.]

3.2 Closed Action Items

1. *Masuoka*: Develop a set of comments from MODIS on the third version of the Quality Assurance plan and forward to the Team Leader for review. [Comments have been forwarded to Robert Lutz —Action Item is completed.]